

IN THE CLAIMS:

Please cancel claims 1-4 and 8 without prejudice to or disclaimer of the subject matter recited therein.

LISTING OF CURRENT CLAIMS

Claims 1-8 (Canceled).

Claim 9. (Previously Presented) A method for controlling an open state and a locked state of a cover installed on an optical storage carrier player, the carrier player having a driving unit for supporting and rotating an optical storage carrier, a
5 locking means for selectively engaged with or separated from the cover, and a controller coupled to the driving unit and the locking means, the method comprising following steps of:

(a) presenting an actuating signal to actuate the controller to detect a rotation speed of the driving unit and compare the rotation speed with a predetermined
10 speed wherein the rotation speed of the driving unit is detected by transforming a sine wave signal generated by the driving unit into a series of pulse signal with intervals,

(b) generating a first control signal by the controller transmitting to the locking means to make the locking means engaged with the cover when the detected
15 rotation speed is higher than the predetermined speed; and

(c) generating a second control signal the controller transmitting to the locking means to make the locking means separated from the cover when the detected rotation speed is lower than the predetermined speed to make the cover to enter the open state.

Claim 10. (Original) The method of claim 9, wherein the controller generates a speed-reduction signal transmitting to the driving unit to reduce the rotation speed when the detected rotation speed is higher than the predetermined speed and the actuating signal is presented.

Claim 11. (Original) The method of claim 9, wherein the actuating signal of step (a) is remotely presented through a switch.

Claim 12. (Canceled)

Claim 13. (Previously Presented) The method of claim 9, wherein the pulse is corresponding to the wave crest of the sine wave.

Claim 14. (Previously Presented) The method of claim 9, wherein the pulse is corresponding to the wave valley of the sine wave.

Claim 15. (Original) The method of claim 10, wherein the speed-reduction signal is a series of pulse signal with a longer interval corresponding to a reduced rotation speed lower than the predetermined speed.

Claim 16. (Previously Presented) A cover-locking mechanism for an optical storage carrier player, the cover-locking mechanism comprising:

- a switch receiving an actuating signal from a user;
- a cover disposed on the carrier player and selectively actuated to enter an
- 5 open state for placing or removing a carrier;
- a driving unit disposed on the carrier player transforming a rotation speed signal from a sine wave signal into a pulse signal with a plurality of intervals; and
- a controller coupled to the switch and the driving unit, and receiving the pulse
- 10 signal, wherein the controller generates an open signal to actuate the cover to enter the open state when intervals of the pulse signal are larger than a predetermined interval.

Claim 17. (Previously Presented) The cover-locking mechanism of claim 16, wherein the controller comprises:

a rotation speed detection module receiving the pulse signal and detecting the rotation speed of the driving unit ;

5 a comparative module coupled to the rotation speed detection module and comparing the intervals of the pulse signal with a pre-determined interval; and

a signal generation module generating a speed-reduction signal transmitted to the driving unit reducing its rotation speed when the intervals of the pulse signal are larger than a predetermined interval and generating an output signal to make the

10 cover enter the open state.

Claim 18. (Previously Presented) The cover-locking mechanism of claim 16, further comprising:

a locking device disposed on the carrier player selectively engaged with or separated from the cover; and,

5 a cover-engaging unit selectively driving the locking means to release the cover to the open state.

Claim 19. (Previously Presented) The cover-locking mechanism of claim 18, wherein the cover-engaging unit comprises a solenoid valve and the locking device is a slidable protruding block, the protruding block is engaged with the cover when the solenoid valve is power-off, and the protruding block is separated from the cover when the solenoid valve is power-on.

Claim 20. (Previously Presented) The cover-locking mechanism of claim 16, wherein the locking device is an electromagnet, the electromagnet is engaged with the cover when the electromagnet is power-on, and the electromagnet is separated from the cover when the electromagnet is power-off.